

PCT09

H\$ 10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/890,729

DATE: 01/22/2002 TIME: 10:17:23

Input Set : A:\A-579B.ST25.txt

Output Set: N:\CRF3\01182002\1890729.raw

2	ν110×	A DDT T	C A NI⊞	. Va	ahin	202	C+ o	···								ITER
	<110>			: 10	SIIII	aya,	Ste	ven								
4		Mak,		7	a .											
5		Shahi				~ ~										,
6		Trafu				IId										
7		Senal			_	N. D	~1 ···	~~+ d		T	1 4	٠	T	D		
								ерст	ues	TUVO	rvea	ΤΠ	IIIunu.	ne k	esponse	
	<130>							n	a 400	/000	720					
C> 13										/890	, 129					
C> 13										720						
		50> PRIOR APPLICATION NUMBER: 09/890,729 51> PRIOR FILING DATE: 2000-01-27														
									/II.C.O.	0 /01	071					
	<150>							-	7050	0/01	0/1					
	<151> <150>								00/2	61 5	27					
	<151>								09/2	04,5	21					
									10/2	11 1	ΛQ					
	<150> PRIOR APPLICATION NUMBER: US 09/244,448 <151> PRIOR FILING DATE: 1999-02-03															
	<160>							2 ()								
	<170>							n 3 1	1							
	<210>				511 C.1.	11 V C.	1310	п Э.,	J							
	<211>															
	<212>			00												
	<213>			Mus	mus	en Lu:	S		•							
	<220>				ab											
	<221>			CDS												
	<222>	-			(6)	001							,			
	<400>				(-	,										
	atg a				tac	cat	atc	ttt	atc	ttc	tac	ttc	cta	atc	aga	48
	Met L															
41		•	•	5	-	,			10		-			15	-	
43	ctt t	ta aca	gga	gaa	atc	aat	ggc	tcg	gcc	gat	cat	agg	atg	ttt	tca	96
	Leu L															
45			20					25					30			
47	ttt c	ac aat	gga	ggt	gta	cag	att	tct	tgt	aaa	tac	cct	gag	act	gtc	144
48	Phe H	is Asn	Gly	Gly	Val	Gln	Ile	Ser	Cys	Lys	Tyr	Pro	Glu	Thr	Val	
49		35					40					45				
51	cag c	ag tta	aaa	atg	cga	ttg	ttc	aga	gag	aga	gaa	gtc	ctc	tgc	gaa	192
52	Gln G	ln Leu	Lys	Met	Arg	Leu	Phe	Arg	Glu	Arg	Glu	Val	Leu	Cys	Glu	
53	5	0				55					60					
	ctc a															240
	Leu T															
57	65				70				•	75					80	

59 atg ctc tgt cta tat cat ctg tca aac agc gtc tct ttt ttc cta

288

RAW SEQUENCE LISTING DATE: 01/22/2002 PATENT APPLICATION: US/09/890,729 TIME: 10:17:23

Input Set : A:\A-579B.ST25.txt

Output Set: N:\CRF3\01182002\I890729.raw

60 Met Leu Cys Leu Tyr His Leu Ser Asn Asn Ser Val Ser Phe Phe Leu 85 90 95												
63 aac aac cca gac agc tcc cag gga agc tat tac ttc tgc agc ctg tcc	336											
	330											
64 Asn Asn Pro Asp Ser Ser Gln Gly Ser Tyr Tyr Phe Cys Ser Leu Ser												
65 100 105 110												
67 att ttt gac cca cct cct ttt caa gaa agg aac ctt agt gga gga tat	384											
68 Ile Phe Asp Pro Pro Pro Phe Gln Glu Arg Asn Leu Ser Gly Gly Tyr												
69 115 120 125												
71 ttg cat att tat gaa tcc cag ctc tgc tgc cag ctg aag ctc tgg cta	432											
72 Leu His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Leu Trp Leu												
73 130 135 140	•											
75 ccc gta ggg tgt gca gct ttc gtt gtg gta ctc ctt ttt gga tgc ata	480											
	400											
76 Pro Val Gly Cys Ala Ala Phe Val Val Leu Leu Phe Gly Cys Ile												
77 145 150 155 160												
79 ctt atc atc tgg ttt tca aaa aag aaa tac gga tcc agt gtg cat gac	528											
80 Leu Ile Ile Trp Phe Ser Lys Lys Tyr Gly Ser Ser Val His Asp												
81 165 170 175												
83 cct aat agt gaa tac atg ttc atg gcg gca gtc aac aca aac aaa aag	576											
84 Pro Asn Ser Glu Tyr Met Phe Met Ala Ala Val Asn Thr Asn Lys Lys												
85 180 185 190												
	600											
87 tot aga ott goa ggt gtg acc toa	000											
88 Ser Arg Leu Ala Gly Val Thr Ser												
89 195 200												
92 <210> SEQ ID NO: 2												
93 <211> LENGTH: 200												
94 <212> TYPE: PRT												
95 <213> ORGANISM: Mus musculus												
97 <400> SEQUENCE: 2												
99 Met Lys Pro Tyr Phe Cys Arg Val Phe Val Phe Cys Phe Leu Ile Arg												
100 1 5 10 15												
103 Leu Leu Thr Gly Glu Ile Asn Gly Ser Ala Asp His Arg Met Phe Se	r											
	-											
,101	1											
107 Phe His Asn Gly Gly Val Gln Ile Ser Cys Lys Tyr Pro Glu Thr Va	L											
108 35 40 45												
111 Gln Gln Leu Lys Met Arg Leu Phe Arg Glu Arg Glu Val Leu Cys Gl	1											
112 50 55 60												
115 Leu Thr Lys Thr Lys Gly Ser Gly Asn Ala Val Ser Ile Lys Asn Pro	5											
116 65 70 75 80												
119 Met Leu Cys Leu Tyr His Leu Ser Asn Asn Ser Val Ser Phe Phe Le	1											
120 85 90 95												
123 Asn Asn Pro Asp Ser Ser Gln Gly Ser Tyr Tyr Phe Cys Ser Leu Se	r											
	•											
=												
127 Ile Phe Asp Pro Pro Pro Phe Gln Glu Arg Asn Leu Ser Gly Gly Ty:	Ľ											
128 115 120 125												
131 Leu His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Leu Trp Leu	1											
132 130 135 140												
135 Pro Val Gly Cys Ala Ala Phe Val Val Leu Leu Phe Gly Cys Ile	e											
136 145 150 155 166												
139 Leu Ile Ile Trp Phe Ser Lys Lys Lys Tyr Gly Ser Ser Val His As	2											

RAW SEQUENCE LISTING DATE: 01/22/2002 PATENT APPLICATION: US/09/890,729 TIME: 10:17:23

Input Set : A:\A-579B.ST25.txt

Output Set: N:\CRF3\01182002\I890729.raw

```
165
                                        170
143 Pro Asn Ser Glu Tyr Met Phe Met Ala Ala Val Asn Thr Asn Lys Lys
                180
                                    185
147 Ser Arg Leu Ala Gly Val Thr Ser
           195
151 <210> SEQ ID NO: 3
152 <211> LENGTH: 200
153 <212> TYPE: PRT
154 <213> ORGANISM: Mus musculus
156 <400> SEQUENCE: 3
158 Met Lys Pro Tyr Phe Cys Arg Val Phe Val Phe Cys Phe Leu Ile Arg
                                        10
161 Leu Leu Thr Gly Glu Ile Asn Gly Ser Ala Asp His Arg Met Phe Ser
    20
                                    25
164 Phe His Asn Gly Gly Val Gln Ile Ser Cys Lys Tyr Pro Glu Thr Val
167 Gln Gln Leu Lys Met Arg Leu Phe Arg Glu Arg Glu Val Leu Cys Glu
170 Leu Thr Lys Thr Lys Gly Ser Gly Asn Ala Val Ser Ile Lys Asn Pro
                        70
173 Met Leu Cys Leu Tyr His Leu Ser Asn Asn Ser Val Ser Phe Phe Leu
                   85
                                       90
176 Asn Asn Pro Asp Ser Ser Gln Gly Ser Tyr Tyr Phe Cys Ser Leu Ser
               100
                                   105
179 Ile Phe Asp Pro Pro Pro Phe Gln Glu Arg Asn Leu Ser Gly Gly Tyr
    115
                               120
182 Leu His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Leu Trp Leu
       130
                            135
185 Pro Val Gly Cys Ala Ala Phe Val Val Leu Leu Phe Gly Cys Ile
                       150
                                           155
188 Leu Ile Ile Trp Phe Ser Lys Lys Lys Tyr Gly Ser Ser Val His Asp
                   165
                                       170
191 Pro Asn Ser Glu Tyr Met Phe Met Ala Ala Val Asn Thr Asn Lys Lys
192
               180
                                   185
194 Ser Arg Leu Ala Gly Val Thr Ser
195
           195
197 <210> SEQ ID NO: 4
198 <211> LENGTH: 218
199 <212> TYPE: PRT
200 <213> ORGANISM: Mus musculus
202 <400> SEQUENCE: 4
204 Met Thr Leu Arg Leu Leu Phe Leu Ala Leu Asn Phe Phe Ser Val Gln
207 Val Thr Glu Asn Lys Ile Leu Val Lys Gln Ser Pro Leu Leu Val Val
                                   2.5
210 Asp Ser Asn Glu Val Ser Leu Ser Cys Arg Tyr Ser Tyr Asn Leu Leu
213 Ala Lys Glu Phe Arg Ala Ser Leu Tyr Lys Gly Val Asn Ser Asp Val
214
                           55
```

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/09/890,729**DATE: 01/22/2002
TIME: 10:17:23

Input Set : A:\A-579B.ST25.txt

Output Set: N:\CRF3\01182002\1890729.raw

216 Glu Val Cys Val Gly Asn Gly Asn Phe Thr Tyr Gln Pro Gln Phe Arg 217 65 219 Ser Asn Ala Glu Phe Asn Cys Asp Gly Asp Phe Asp Asn Glu Thr Val 90 222 Thr Phe Arg Leu Trp Asn Leu His Val Asn His Thr Asp Ile Tyr Phe 100 105 225 Cys Lys Ile Glu Phe Met Tyr Pro Pro Pro Tyr Leu Asp Asn Glu Arg 120 228 Ser Asn Gly Thr Ile Ile His Ile Lys Glu Lys His Leu Cys His Thr 130 135 231 Gln Ser Ser Pro Lys Leu Phe Trp Ala Leu Val Val Ala Gly Val 150 155 234 Leu Phe Cys Tyr Gly Leu Leu Val Thr Val Ala Leu Cys Val Ile Trp 165 170 237 Thr Asn Ser Arg Arg Asn Arg Leu Leu Gln Val Thr Thr Met Asn Met 180 185 240 Thr Pro Arg Arg Pro Gly Leu Thr Arg Lys Pro Tyr Gln Pro Tyr Ala 241 195 200 243 Pro Ala Arg Asp Phe Ala Ala Tyr Arg Pro 244 210 215 246 <210> SEQ ID NO: 5 247 <211> LENGTH: 44 248 <212> TYPE: PRT 249 <213> ORGANISM: Artificial sequence 251 <220> FEATURE: 252 <221> NAME/KEY: misc_feature 253 <223> OTHER INFORMATION: Synthetic 256 <400> SEQUENCE: 5 258 Met Arg Leu Leu Val Ser Cys Tyr Leu Val Cys Cys Asn Val Phe Leu 259 1 5 10 261 Asn Tyr Phe Cys Pro Pro Pro Ser Gly His Ile Glu Leu Cys Lys Leu 25 264 Trp Leu Val Phe Leu Leu Ile Trp Pro Arg Ala 265 35 267 <210> SEQ ID NO: 6 268 <211> LENGTH: 966 269 <212> TYPE: DNA 270 <213> ORGANISM: Mus musculus 272 <220> FEATURE: 273 <221> NAME/KEY: CDS 274 <222> LOCATION: (1)..(966) 276 <400> SEQUENCE: 6 277 atg cag cta aag tgt ccc tgt ttt gtg tcc ttg gga acc agg cag cct 48 278 Met Gln Leu Lys Cys Pro Cys Phe Val Ser Leu Gly Thr Arg Gln Pro 279 1 281 gtt tgg aag aag ctc cat gtt tct agc ggg ttc ttt tct ggt ctt ggt 282 Val Trp Lys Lys Leu His Val Ser Ser Gly Phe Phe Ser Gly Leu Gly 285 ctg ttc ttg ctg ctg ttg agc agc ctc tgt gct gcc tct gca gag act 144

RAW SEQUENCE LISTING DATE: 01/22/2002 PATENT APPLICATION: US/09/890,729 TIME: 10:17:23

Input Set : A:\A-579B.ST25.txt

Output Set: N:\CRF3\01182002\1890729.raw

286 287	Leu	Phe	Leu 35	Leu	Leu	Leu	Ser	Ser 40	Leu	Cys	Ala	Ala	Ser 45	Ala	Glu	Thr	
289	gaa	atc	aat	qca	atg	ata	qqc	agc	aat	qtq	gtg	ctc	agc	tgc	att	gac	192
290	G111	Val	Glv	Δla	Met	Val	Glv	Ser	Asn	Val	Val	Leu	Ser	Cvs	Ile	Asp	
	Giu		Gry	2114	1100	, 41	55	501	21011	,	,	60		010		E	
291		50															240
293	ccc	cac	aga	cgc	cat	ttc	aac	ttg	agt	ggt	ctg	τατ	gtc	τατ	tgg	caa	240
294	Pro	His	Arg	Arg	His	Phe	Asn	Leu	Ser	Gly	Leu	${ t Tyr}$	Val	Tyr	Trp	Gln	
295	65					70					75					80	
		gaa	aac	cca	gaa	att	tca	ata	act	tac	tac	ctq	cct	tac	aaq	tct	288
					Glu												
	TTE	GIU	ASII	FIU	85	Val	DCI	V (4 1.	1111	90	- 1 -	Lou		-1-	95	501	
299																	226
					gtg												336
302	Pro	Gly	Ile	Asn	Val	Asp	Ser	Ser	${ t Tyr}$	Lys	Asn	Arg	Gly	His	Leu	Ser	
303				100					105	•				110			
305	cta	gac	t.cc	ato	aag	cag	aat	aac	ttc	tct	ctq	tac	ctg	aaq	aat	gtc	384
306	T.eu	Δsn	Ser	Met	Lys	Gln	Glv	Asn	Phe	Ser	Leu	Tvr	Leu	Lvs	Asn	val	
	шса	nop.	115	1100	2.70	0.2.1.	0-1	120				- 1 -	125	_1			
307								_		. ~~	~~~	~+ ·		2+4	2 2 ±	202	432
309	acc	CCT	cag	gat	acc	cay	gag	-1	aca	Lyc	cyy	y La		aly	aat	aca ml	432
310	Thr	Pro	GIn	Asp	Thr	GIn		Phe	Thr	Cys	Arg		Pne	Met	ASI	Thr	
311		130					135					140					
313	gcc	aca	gag	tta	gtc	aag	atc	ttg	gaa	gag	gtg	gtc	agg	ctg	cgt	gtg	480
314	Ala	Thr	Glu	Leu	Val	Lys	Ile	Leu	Glu	Glu	Val	Val	Arg	Leu	Arg	Val	
	145					150					155		_			160	
		aca	220	ttc	agt		cct	atc	atc	age	acc	tct	gat.	age	t.cc	aac	528
210	315	312	A an	Dho	Ser	Thr	Dro	Val	Tla	Sar	Thr	Ser	Δen	Ser	Ser	Asn	
	Ala	Ата	ASII	Pile		1111	PIO	vai	TIE		1111	261	дор	Jer	175	ASII	
319					165		_		_	170							E76
321	ccg	ggc	cag	gaa	cgt	acc	tac	acc	tgc	atg	tcc	aag	aat	ggc	tac	cca	576
322	Pro	Gly	Gln	Glu	Arg	Thr	\mathtt{Tyr}	${ t Thr}$	Cys	Met	Ser	Lys	Asn	Gly	Tyr	Pro	
323				180					185					190			
325	qaq	ccc	aac	ctq	tat	tgg	atc	aac	aca	acg	gac	aat	agc	cta	ata	gac	624
326	Ğlü	Pro	Asn	Ten	Tyr	Trp	Tle	Asn	Thr	Thr	Asp	Asn	Ser	Leu	Ile	Asp	
327	OΞG	110	195	Lou	- 1			200					205			-	
		~~+		~~~	aat	224	2.0±		+20	++~	220	nee		aac	cta	tat	672
329	acy	get	cug	cay	aat	aac	acc.	910	T	Tau	3.00	trea	Tau	990	Tou	Tur.	0,2
	Thr		Leu	GIn	Asn	Asn		val	TYL	Leu	ASII		Leu	СТУ	Leu	TYL	
331		210					215					220					
333	gat	gta	atc	agc	aca	tta	agg	ctc	cct	tgg	aca	tct	cgt	ggg	gat	gtt	720
334	Asp	Val	Ile	Ser	Thr	Leu	Arg	Leu	Pro	Trp	Thr	Ser	Arg	Gly	Asp	Val	
	225					230	_				235					240	
		tac	tac	αta	gag	aat	ata	act	ctc	cac	caq	aac	atc	act	age	att	768
220	Tou	Crrc	Cua	Val	Glu	Agn	772J	λla	Len	Uic	Gln	Δgn	Tle	Thr	Ser	Tle	
	теп	Cys	Cys	var		No II	Val	ALG	neu	250	0111	71511		1111	255	110	
339				•	245				4-					~~~		~~~	816
341	agc	cag	gca	gaa	agt	ttc	act	gga	aat	aac	aca	aag	aac	cca	cay	yaa	010
342	Ser	Gln	Ala	Glu	Ser	Phe	Thr	GТĀ		Asn	Thr	Lys	Asn		GLn	GIU	
343				260					265					270			
345	acc	cac	aat	aat	gag	tta	aaa	gtc	ctt	gtc	ccc	gtc	ctt	gct	gta	ctg	864
346	Thr	His	Asn	Asn	Glu	Leu	Lvs	Val	Leu	Val	Pro	Val	Leu	Ala	Val	Leu	
347			275	-			-4-	280					285				
	aca	ace		uc.	ttc	at+	tcc		atc	ata	tac	апа		acσ	cat	CCC	912
243	y cy	yca 31-	y 0 y	y ca	Dha	y	200	Dha	T1-	Tla	Tirr	Are	Are	Thr	Dra.	Dro	
350	ΑΙα	Ala	АТа	Ala	Phe	νal	ser	Fue	тте	тте	TAT	MIA	vi A	TIIT	тту	1.10	

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/890,729

DATE: 01/22/2002 TIME: 10:17:24

Input Set : A:\A-579B.ST25.txt

Output Set: N:\CRF3\01182002\1890729.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1303 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21